



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. I-2-0203.4US	SERIAL NO. 10/085,187
	APPLICANT Joseph A. Kwak	
	FILING DATE February 27, 2002	GROUP 2662

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		6,519,065	02/2003	Colbourne et al.			
		2002/0191544	12/2002	Cheng et al.			
		2002/0064167	05/2002	Khan et al.			
		2003/0039226	02/2003	Kwak			
		2002/0037058	03/2002	Birru			
		2002/0034182	02/2002	Mallory			
		4,912,705	03/1990	Paneth et al.			
		5,101,406	03/1992	Messenger			
		5,280,498	01/1994	Tymes et al.			
		5,345,439	09/1994	Marston			
		5,345,600	09/1994	Davidson			
		5,351,016	09/1994	Dent			
		5,544,196	08/1996	Tiedemann, Jr. et al.			
		5,570,369	10/1996	Jokinen			
		5,648,969	07/1997	Pasternak et al.			
		5,657,325	08/1997	Lou et al.			
		5,715,260	02/1998	Black et al.			
		5,729,557	03/1998	Gardner et al.			
		5,828,677	10/1998	Sayeed et al.			
		5,838,267	11/1998	Wang et al.			
		5,918,156	06/1999	Tanabe			
		5,946,320	08/1999	Decker			
		5,954,839	09/1999	Park et al. ²			
		5,956,624	09/1999	Hunsinger et al.			
		5,982,760	11/1999	Chen			

EXAMINER	DATE CONSIDERED
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		5,983,382	11/1999	Pauls			
		5,983,383	11/1999	Wolf			
		5,983,384	11/1999	Ross			
		6,021,123	02/2000	Mimura			
		6,021,124	02/2000	Haartsen ³			
		6,049,549	04/2000	Ganz et al.			
		6,064,692	05/2000	Chow			
		6,128,276	10/2000	Agee			
		6,130,918	10/2000	Humphrey et al			
		6,134,694	10/2000	Uebayashi et al.			
		6,138,260	10/2000	Ketseoglou			
		6,145,108	11/2000	Ketseoglou			
		6,154,489	11/2000	Kleider et al.			
		6,189,123	02/2001	Anders Nystrom et al.			
		6,208,663	03/2001	Schramm et al. ⁴			
		6,212,240	04/2001	Scheibel, Jr. et al.			
		6,212,659	04/2001	Zehavi			
		6,226,520	05/2001	Jeoung ¹³			
		6,233,711	05/2001	Murayama et al.			
		6,262,994	07/2001	Dirschedl et al.			
		6,272,183	08/2001	Berens et al.			
		6,275,488	08/2001	Cudak et al.			
		6,289,003	09/2001	Raitola et al.			
		6,308,294	10/2001	Ghosh et al.			
		6,317,418	11/2001	Raitola et al.			
		6,359,877	03/2002	Rathonyi et al.			

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		6,366,601	04/2002	Ghosh et al.			
		6,370,669	04/2002	Eroz et al.			
		6,421,803	07/2002	Persson et al.			
		6,449,246	09/2002	Barton et al.			
		6,470,391	10/2002	Takamoto et al.			
		6,473,399	10/2002	Johansson et al. ¹¹			
		6,522,650	02/2003	Yonge et al.			
		6,529,561	03/2003	Sipola			
		6,587,985	07/2003	Fukushima et al.			
		6,601,207	07/2003	Vanttinen ⁵			
		6,621,807	09/2003	Jung et al. ⁶			
		6,647,076	11/2003	Schenk et al.			
		6,671,266	12/2003	Moon et al. ⁷			
		6,735,180	05/2004	Malkamaki et al.			
		6,760,860	07/2004	Fong et al.			
		6,831,910	12/2004	Moon et al. ⁸			
		6,895,010	05/2005	Chang et al. ⁹			
		6,907,005	06/2005	Dahlman et al.			
		6,931,569	08/2005	Fong et al.			
		6,956,855	10/2005	Chang ¹⁰			
		7,164,654	01/2007	Hunzinger et al.			
	*	5,954,839	09/1999	Park et al. ¹⁷			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		1132772	01/2004	CN				

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							TRANSLATION
		0797327	09/1997	EP			
		0859475	08/1998	EP			
		07-336331	12/1995	JP			X**
		09-298575	11/1997	JP			X**
		09-247209	09/1997	JP			X**
		2000-188609	07/2000	JP			X**
		01-141431	06/1989	JP			X**
		09-116597	05/1997	JP			X**
		2001-103034	04/2001	JP			X**
		11-046217	02/1999	JP			X**
		2000-004196	01/2000	JP			X**
		2003/0004618	01/2003	KR			x
		2179370	02/2002	RU			
		2195768	12/2002	RU			
		2221338	01/2004	RU			
		2221339	01/2004	RU			
		2235432	08/2004	RU			
		97118086	07/1999	RU			
		2001126714	07/2003	RU			
		99/12303	03/1999	WO			
		99/09698	02/1999	WO			
		97/37459	10/1997	WO ¹			
		98/31106	07/1998	WO ¹⁴			
		01/01624	01/2001	WO ¹⁵			
		02/33877	04/2002	WO ¹⁶			
		99/66675	12/1999	WO ¹²			

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							TRANSLATION
	*	2294055	01/2006	RU			
	*	2004/038990	06/2004	WO ¹⁸			
	*	2282310		RU			

OTHER DOCUMENTS

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	"Hybrid ARQ Methods for FDD in Release in 2000," TSG-RAN Working Group 1 Meeting #14, Oulu, Finland, (July 4-7, 2000).
	3GPP, "Physical Layer Aspects of UTRA High Speed Downlink Packet Access," 3GPP TR 25.848 V4.0.0 (2001-03), pp. 1-89.
	ROHLING ET AL. "Performance Comparison of Different Multiple Access Schemes for the Downlink of an OFDM Communication System", 1997 IEEE 47 th Vehicular Technology Conference, May 1997, vol. 3, p. 1368, (May 1997).
	3GPP, 3 rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer aspects of UTRA High Speed Downlink Packet Access (Release 4), TR 25.848 V4.0.0 (2001-03), p. 50.
	ERIKKSON ET AL. "Comparison of Link Quality Control Strategies for Packet Data Services in EDGE." Vehicular Technology Conference, 1999 IEEE, pp. 938-942, (May 16, 1999).
	SAYEED, "Throughput Analysis and Design of Fixed and Adaptive ARQ/Diversity Systems for Slow Fading Channels." Global Telecommunications Conference, 1998, pp. 3686-3691 (November 8, 1998).
	SHIOZAKI ET AL. "A Hybrid ARQ Scheme With Adaptive Forward Error Correction for Satellite Communications." IEEE Transactions on Communications, pp. 482-484 (April 1, 1991).
	BAKHTIYARI ET AL. "Practical Implementation of a Mobile Data Link Protocol With A Type II Hybrid ARQ Scheme and Code Combining," Personal Communication – Freedom Through Wireless Technology. Proceedings of the Vehicular Technology Conference, pp. 774-777 (May 18, 1993).
	KIM ET AL. "On Hybrid ARQ of Reverse Channel in 1xEV-DV", Montreal Canada, C50-20010709-019 SAMSUNG_Reverse Channel HARQ.doc, (July 10, 2001).

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
		3GPP, 3 rd Generation Partnership Project; Technical Specification Group Radio Access Network; Report on Hybrid ARQ Type II/III (Release 2000), 3GPP TR 25.835 V1.0.0 (September 2000).
		STALLINGS, "Networking Standards – A Guide to OSI, ISDN, LAN, and MAN Standards", p. 37, (February 1993).
		WANG ET AL. "Error Control and Concealment for Video Communication --- A Review ¹ ".

** Abstract Only

¹ corresponds to JP 2000-507777; ² corresponds to RU 2195768; ³ corresponds to CN 1275279; ⁴ corresponds to CN 1277766;
⁵ corresponds to RU 2001126714; ⁶ corresponds to RU 2195089; ⁷ corresponds to RU 2179370; ⁸ corresponds to RU 2210864;
⁹ corresponds to RU 2221338 ; ¹⁰ corresponds to RU 2221339; ¹¹ corresponds to RU 2235432; ¹² corresponds to CN 1275299;
¹³ corresponds to RU 2138125; ¹⁴ corresponds to RU 2234806; ¹⁵ corresponds to RU 2216868; ¹⁶ corresponds to RU 2236091;
¹⁷ corresponds to RU 2294055; ¹⁸ corresponds to RU 2282310

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Atty. Docket # I-2-0203.4US

Mailed prepaid on: October 9, 2007

by ☒ First Class or ☐ Express Mail to: Mail
Stop Amendment, Commissioner for Patents, P.O.
Box 1450, Alexandria, VA 22313-1450

IN RE PATENT APPLICATION OF

Inventors: Joseph A. Kwak
Appln. No.: 10/085,187
Filed: February 27, 2002
Title: METHOD FOR PHYSICAL
LAYER AUTOMATIC REPEAT REQUEST FOR A
SUBSCRIBER UNIT

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3 References cited.

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